



August 13, 2002

**\*\*\* ADDENDUM \*\*\* ADDENDUM \*\*\* ADDENDUM \*\*\***

**SOLICITATION: JG3010**  
**DUE DATE: 08/27/02**  
**TIME: 2:00 PM**  
**DESCRIPTION: New Chain Link Fence- Huntington UT**

**ADDEMDUM #1**

**The following are to be added or changed to the specifications for this quote:**

1. Under the Bid section, replace the word Levan with Huntington.
2. To be added to specifications: "One gate shall have electric operation. Operation shall be by means of a key switch or remote control. Two key switches and 6 remote controls shall be provided. Gate shall also have override to allow manual operation. Contractor shall install operator. Owner will provide electrical connections. Contractor shall verify electrical service available at site."
3. Also detailed specifications for the added electric operated gate have been added as an attachment.
4. The due remains the same: August 27, 2002
5. If a quote was submitted prior to receipt of this addendum, a revised quote may be faxed to the Division of Purchasing (801) 538-3882. The quote with the most current date received will be considered.
6. With procurement process questions contact Jared Gardner (801) 538-3342.

\*\*\*\*\*END OF ADDENDUM\*\*\*\*\*

To acknowledge receipt of addendum, include a copy of this addendum with QUOTE submittal or give written acknowledgement with the QUOTE. It shall be the responsibility of the bidder to appropriately disseminate this information to all concerned prior to the assigned bid time.

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

# TECHNICAL SPECIFICATIONS

## Slide Gate Operator

### PART 1 - GENERAL

#### 1.01. INCLUDED IN THIS SECTION

- A. Pre-wired, self-contained, slide gate operator for horizontal sliding gates, including all selected attachments and accessory equipment.

#### 1.02. SUBMITTALS

- A. Shop drawings: Submit drawings showing connections to adjacent construction, range of travel, and all electrical and mechanical connections to the operator. Drawings shall also show the size and location of the concrete mounting pad. Underground electrical runs shall be shown on shop drawings.
- B. Installation instructions: Submit two copies of manufacturer's installation instructions for this specific project.
- C. Test reports:
  - 1) Submit affidavits from the manufacturer demonstrating that the gate mechanism has been tested to 200,000 cycles without breakdown.
  - 2) Each operator shall bear a label indicating that the operator mechanism has been tested for full power and pressure of all hydraulic components, full stress tests of all mechanical components and electrical tests of all overload devices.

#### 1.03. QUALITY ASSURANCE

- A. Manufacturer: A company specializing in the manufacture of hydraulic gate operators of the type specified, with a minimum of ten years experience.
- B. Installer: A minimum of three years experience installing similar equipment.

#### 1.04. CODES AND REGULATORY REQUIREMENTS

- A. Operators shall be built to UL325 standards and be listed by a NRTL testing laboratory. All fieldwork shall be performed in a neat and professional manner, completed to journeyman standards.
- B. Current safety standards require the use of multiple external sensors to be capable of reversing the gate in either direction upon sensing an obstruction.

#### 1.05. WARRANTY

- A. Provide a five-year limited warranty against all defects in materials or workmanship. Defective materials shall be replaced with comparable materials furnished by the manufacturer, at no cost to the owner. Freight, labor and other incidental costs shall be covered under the factory warranty.

### PART II – PRODUCTS

#### 2.01. GATE OPERATORS

- A. Hy-Security Gate Operators Model 222 SS-ST with Smart Touch Controller, or other comparable operator, as approved by the Owner. Substitute operators that are approved will be published in an addendum, not less than ten days prior to bid opening.

#### 2.02. OPERATION

- A. Operation shall be by means of a metal rail passing between a pair of hydraulically driven solid metal wheels with polyurethane treads. Operator motors shall be hydraulic, geroller type, and system shall not include belts, gears, pulleys, roller chains or sprockets to transfer power from operator to gate panel. The operator shall generate a minimum horizontal pull of 300 pounds without the drive wheels slipping and without distortion of supporting arms. Operator shall be capable of handling gates weighing up to 1000 pounds. Gate panel velocity shall not be less than 1.0 feet per second and shall be stopped gradually to prevent shock loads to the gate and operator assembly.
- B. Standard mechanical components shall include as a minimum:
  - 1) Supporting arms: Cast aluminum channel. Arms shall incorporate a fully bushed, 1-1/2" bronze bearing surface, acting on arm pivot pins. (item 2 below)
  - 2) Arm pivot pins: 3/4" diameter, stainless steel, with integral tabs for ease of removal.
  - 3) Tension spring: 2-1/2" heavy duty, 800 pound capacity.
  - 4) Tension adjustment: Finger tightened nut, not requiring the use of tools.

- 5) Drive release: Must instantly release tension on both drive wheels, and disengage them from contact with drive rail in a single motion, for manual operation.
  - 6) Limit switches: Fully adjustable, toggle types.
  - 7) Electrical enclosure: Oversized, metal, with hinged lid gasketed for protection from intrusion of foreign objects, and providing ample space for the addition of accessories.
  - 8) Chassis: 1/4" steel base plate, and 10 Ga. sides and back welded and ground smooth.
  - 9) Cover: 16GA. galvanized sheet metal with a powdery paint finish. All joints welded, filled and ground smooth. Finished corners square and true with no visible joints.
  - 10) Finish: Fully zinc plated then finish coat of high gloss powder paint withstanding 1000-hour salt spray test.
  - 11) Drive wheels: 6" Dia. Metal hub with polyurethane tread.
  - 12) Drive rail: Shall be extruded 6061 T6, not less than 1/8" thick. Drive rail shall incorporate alignment pins for ease of replacement or splicing. Pins shall enable a perfect butt splice.
  - 13) Hydraulic hose: Shall be 1/4" synthetic, rated to 2750 p.s.i.
  - 14) Hydraulic valves: Shall be individually replaceable cartridge type, in an integrated hydraulic manifold.
  - 15) Hose fittings: At manifold shall be quick-disconnect type, others shall be swivel type.
  - 16) Hydraulic fluid: High performance type with a viscosity index greater than 375.
  - 17) A zero to 2000-PSI pressure gauge, mounted on the manifold for diagnostics, shall be a standard component.
  - 18) The hydraulic fluid reservoir shall be formed from a single piece of metal, non-welded, and shall be powder painted on the inside and the outside, to prevent fluid contamination.
- C. Minimum standard electrical components:
- 1) Pump motor: Shall be a 1 HP, 56C, TEFC, continuous duty motor, with a service factor of 1.15, or greater. Standard voltages available, single or three phase.
  - 2) All components shall have overload protection.
  - 3) Controls: Smart Touch Controller Board with 128K memory containing:
    - a) inherent entrapment sensor;
    - b) built in "warn before operate" system;
    - c) built in timer to close;
    - d) liquid crystal display for reporting of functions;
    - e) 19 programmable output relay options;
    - f) anti-tailgate mode;
    - g) built-in power surge/lightening strike protection;
    - h) capable, with optional software, of event logging EEPROM for trouble shooting diagnostics;
    - i) RS232 port for connection to laptop or other computer peripheral and RS485 connection of Master/Slave systems.
  - 4) Transformer: 75 VA, non-jumpered taps, for all common voltages.
  - 5) Control circuit: 24VDC.
- D. Required external sensors: Gate edges to be installed such that the gate is capable of reversing in either direction upon sensing an obstruction.
- E. Optional control devices: Key-switch and remote control. Provide 2 key switches and 6 remote controllers.
- F. Other options:
- 1) Heater with thermostat control for cold or damp climates.
  - 2) Weather-stripped drive rail slot in chassis, and snow wiper blades for drive rail.
  - 3) Remote gate release devices. Places operator in "manual mode" from remote location.
  - 4) 115/208/230 VAC single phase and 208/230/460 VAC three phase available.
  - 5) Override for manual operation.

## 2.03. FACTORY TESTING

- A. Fully assemble and test, at the factory, each gate operator to assure smooth operation, sequencing and electrical connection integrity. Apply physical loads to the operator to simulate field conditions. Tests shall simulate physical and electrical loads equal to the fully rated capacity of the operator components.
- B. Check all mechanical connections for tightness and alignment. Check all welds for completeness and continuity. Check welded corners and edges to assure they are square and straight.
- C. Inspect painted finish for completeness and gloss. Touch up imperfections prior to shipment.

- D. Check all hydraulic hoses and electrical wires to assure that chafing cannot occur during shipping or operation.

### **PART III – EXECUTION**

#### **3.01. SITE EXAMINATION**

- A. Locate concrete mounting pad in accordance with approved shop drawings.
- B. Make sure that gate is operating smoothly under manual conditions before installation of gate operators. Do not proceed until gate panel is aligned and operates without binding.

#### **3.02. INSTALLATION**

- A. Install gate operator in accordance with the manufacturer's printed instructions, current at the time of installation. Coordinate locations of operators with contract drawings, other trades and shop drawings.
- B. Installer shall insure that the electric service to the operator is at least 20 AMPS. Operator wattage is 1500.

#### **3.03. FIELD QUALITY CONTROL**

- A. Test gate operator through ten full cycles and adjust for operation without binding, scraping or uneven motion. Test limit switches for proper "at rest" gate position.
- B. All anchor bolts shall be fully concealed in the finished installation.

#### **3.04. CONTINUED SERVICE AND DOCUMENTATION**

- A. Train owner's personnel in the general maintenance of the gate operator and accessories and provide one copy of "operations and maintenance", manual for the owner's use (a second manual is available upon request.) Manuals will identify parts of the equipment for future procurement.